FIG. 4

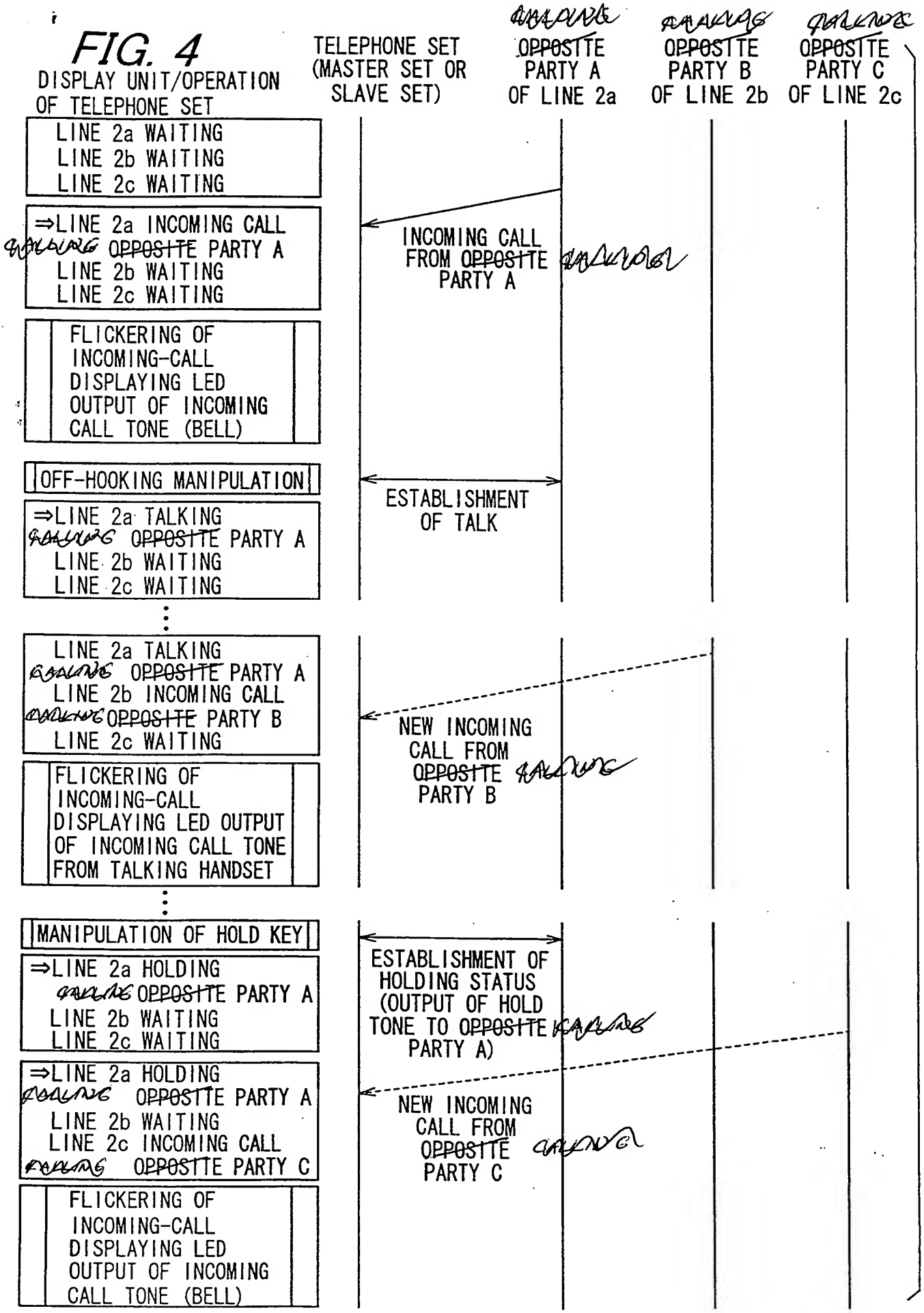

DISPLAY UNIT/OPERATION OF TELEPHONE SET
TELEPHONE SET (MASTER SET OR SLAVE SET)
OPPOSITE PARTY A OF LINE 2a
OPPOSITE PARTY B OF LINE 2b
OPPOSITE PARTY C OF LINE 2c
LINE 2a WAITING
LINE 2b WAITING
LINE 2c WAITING
⇒LINE 2a INCOMING CALL
OPPOSITE PARTY A
LINE 2b WAITING
LINE 2c WAITING
INCOMING CALL FROM OPPOSITE PARTY A
FLICKERING OF INCOMING-CALL DISPLAYING LED
OUTPUT OF INCOMING CALL TONE (BELL)
OFF-HOOKING MANIPULATION
ESTABLISHMENT OF TALK
⇒LINE 2a TALKING
OPPOSITE PARTY A
LINE 2b WAITING
LINE 2c WAITING
LINE 2a TALKING
OPPOSITE PARTY A
LINE 2b INCOMING CALL
OPPOSITE PARTY B
LINE 2c WAITING
NEW INCOMING CALL FROM OPPOSITE PARTY B
FLICKERING OF INCOMING-CALL DISPLAYING LED OUTPUT OF INCOMING CALL TONE FROM TALKING HANDSET
MANIPULATION OF HOLD KEY
ESTABLISHMENT OF HOLDING STATUS (OUTPUT OF HOLD TONE TO OPPOSITE PARTY A)
⇒LINE 2a HOLDING
OPPOSITE PARTY A
LINE 2b WAITING
LINE 2c WAITING
⇒LINE 2a HOLDING
OPPOSITE PARTY A
LINE 2b WAITING
LINE 2c INCOMING CALL
OPPOSITE PARTY C
NEW INCOMING CALL FROM OPPOSITE PARTY C
FLICKERING OF INCOMING-CALL DISPLAYING LED
OUTPUT OF INCOMING CALL TONE (BELL)

FIG. 5

STATUS OF TELEPHONE SET	INPUTTED SIGNAL (MANIPULATION OF TELEPHONE SET)	OPERATION OF TELEPHONE SET
ON HOOK (WAITING) ~~WAITING~~ STATUS (STATUS WHERE NO CALL HAS BEEN RECEIVED YET)	PAGE KEY SIGNAL	OUTPUT OF RINGING TONE (BELL)
	INCOMING CALL SIGNAL	DISPLAYS OF INCOMING CALL (SCREEN, LED), OUTPUT OF INCOMING CALL TONE (BELL)
ON CALL ~~BUSY~~ (TALKING) ~~TALKING~~ STATUS	PAGE KEY SIGNAL	TEMPORARY HOLDING OF TALK, OUTPUT OF RINGING TONE (BELL)
	NEW INCOMING-CALL SIGNAL	DISPLAYS OF INCOMING CALL (SCREEN, LED), OUTPUT OF INCOMING CALL TONE (FROM HANDSET)
CALL HOLDING ~~HOLD~~ (TALK HOLDING) ~~TALK HOLDING~~ STATUS	PAGE KEY SIGNAL	OUTPUT OF RINGING TONE (BELL)
	NEW INCOMING-CALL SIGNAL	DISPLAYS OF NEW INCOMING CALL (SCREEN, LED), OUTPUT OF INCOMING CALL TONE (BELL)

Appl. No. 10/649,955
Atty. Dkt.: 1114-186
ANNOTATED SHEET
SHOWING CHANGES

FIG. 6

STATE OF TELEPHONE SET	INPUTTED SIGNAL (MANIPULATION OF TELEPHONE SET)	OPERATION OF TELEPHONE SET
RINGING-TONE OUTPUT STATE IN ~~WAITING~~ STATUS (ON HOOK (WAITING))	PAGE-RELEASE KEY SIGNAL	STOP OF RINGING TONE (BELL), RE-WAITING STATUS
	NEW INCOMING-CALL SIGNAL	STOP OF RINGING TONE (BELL), DISPLAYS OF INCOMING CALL (SCREEN, LED), OUTPUT OF INCOMING CALL TONE (BELL), RE-WAITING STATUS
RINGING-TONE OUTPUT STATE IN TEMPORARY ~~TALK HOLDING~~ STATUS (~~ON HOLD~~ (TALK HOLDING / CALL HOLDING))	PAGE-RELEASE KEY SIGNAL	STOP OF RINGING TONE (BELL), RE-TALKING STATUS
	NEW INCOMING-CALL SIGNAL	STOP OF RINGING TONE (BELL), DISPLAYS OF INCOMING CALL (SCREEN, LED), OUTPUT OF INCOMING CALL TONE (FROM HANDSET), RE-TALKING STATUS
RINGING-TONE OUTPUT STATE IN ~~TALK HOLDING~~ STATUS (~~ON HOLD~~ (TALK HOLDING / CALL HOLDING))	PAGE-RELEASE KEY SIGNAL	STOP OF RINGING TONE (BELL), RE-TALK-HOLDING STATUS
	NEW INCOMING-CALL SIGNAL	STOP OF RINGING TONE (BELL), DISPLAYS OF INCOMING CALL (SCREEN, LED), OUTPUT OF INCOMING CALL TONE (BELL), RE-TALK-HOLDING STATUS

Appl. No. 10/649,955
Atty. Dkt.: 1114-186
ANNOTATED SHEET
SHOWING CHANGES

FIG. 7

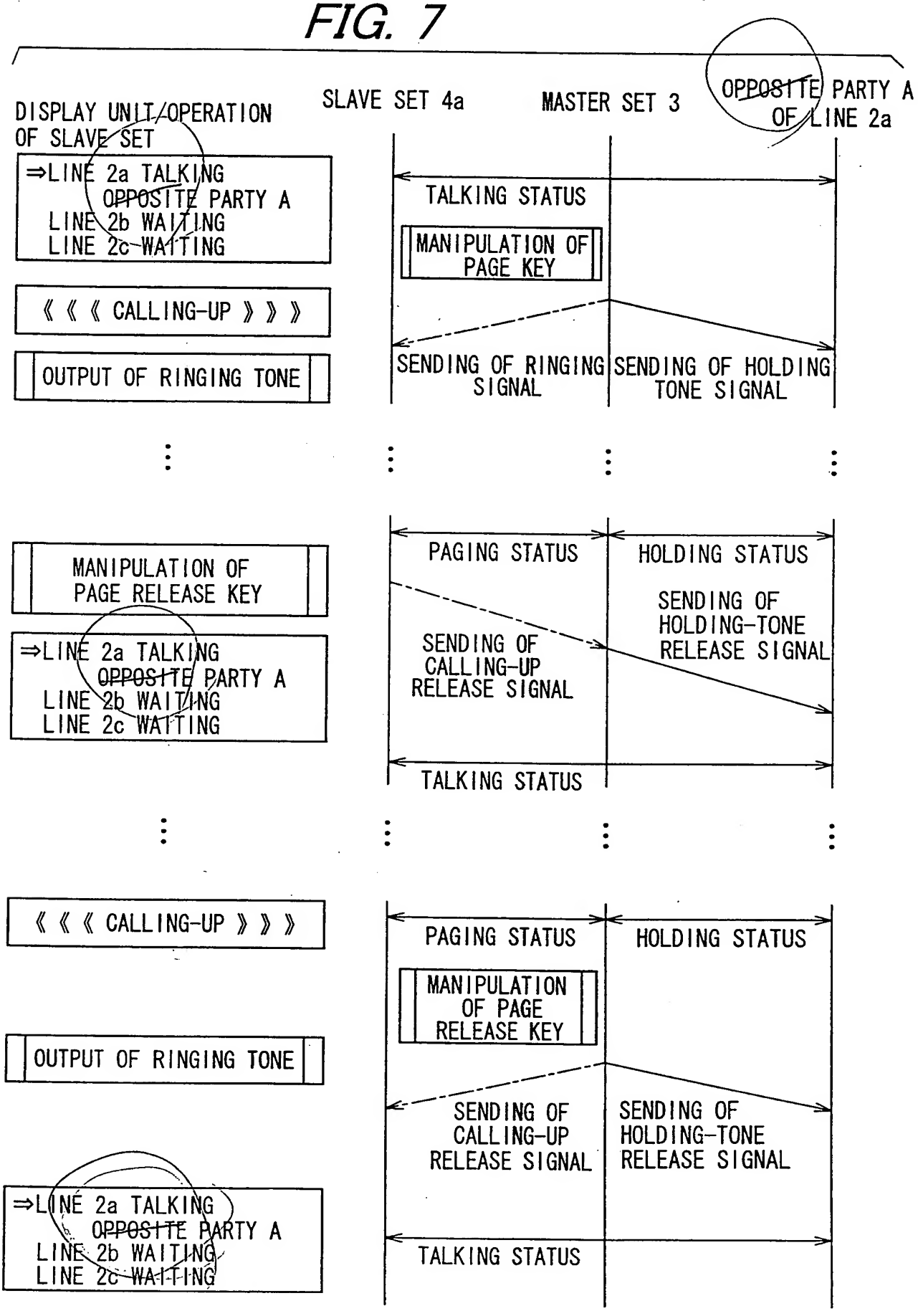
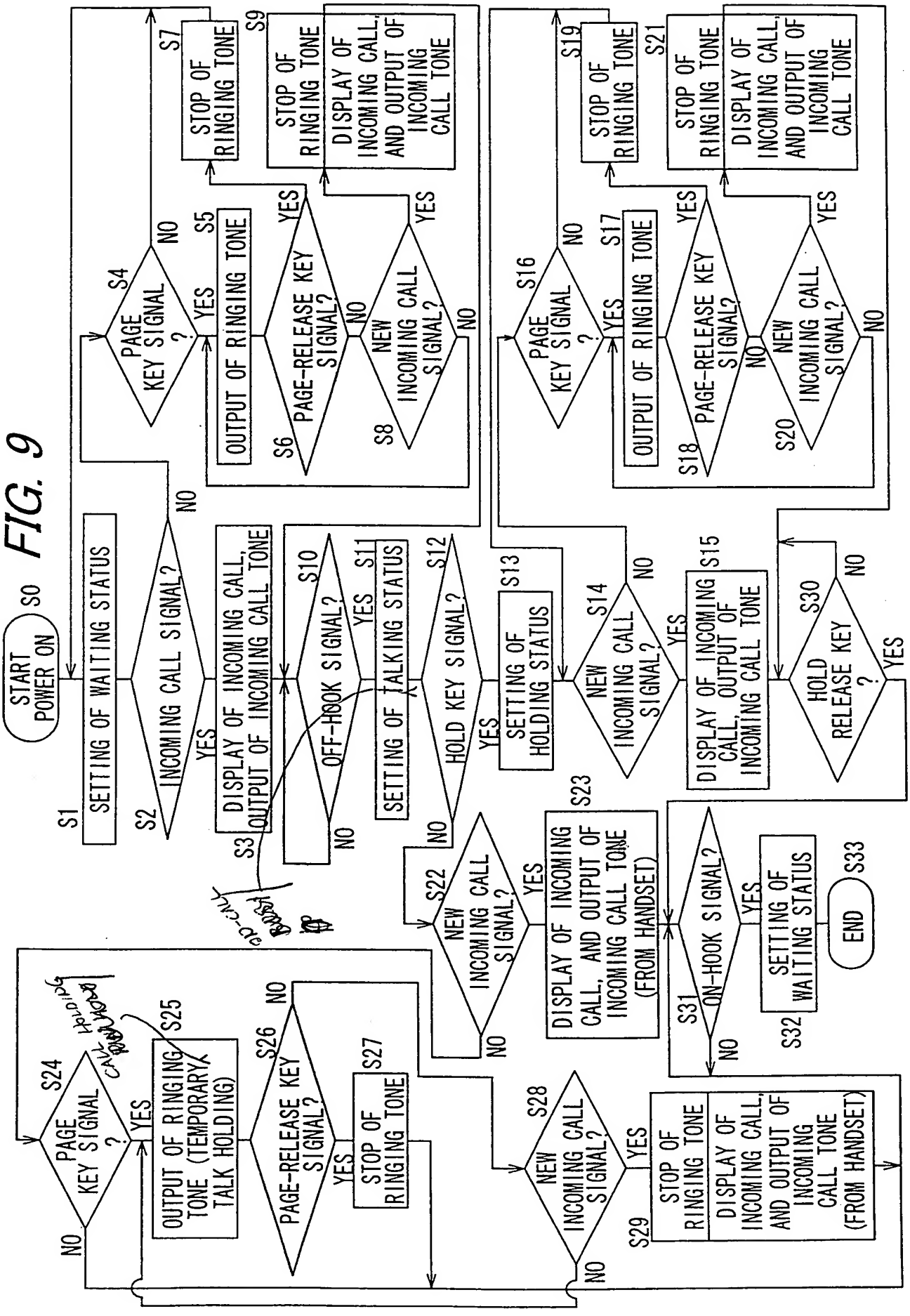

DISPLAY UNIT/OPERATION OF SLAVE SET
SLAVE SET 4a
MASTER SET 3
OPPOSITE PARTY A OF LINE 2a
⇒LINE 2a TALKING OPPOSITE PARTY A
LINE 2b WAITING
LINE 2c WAITING
TALKING STATUS
MANIPULATION OF PAGE KEY
《《《 CALLING-UP 》》》
OUTPUT OF RINGING TONE
SENDING OF RINGING SIGNAL
SENDING OF HOLDING TONE SIGNAL
MANIPULATION OF PAGE RELEASE KEY
PAGING STATUS
HOLDING STATUS
SENDING OF HOLDING-TONE RELEASE SIGNAL
SENDING OF CALLING-UP RELEASE SIGNAL
TALKING STATUS
《《《 CALLING-UP 》》》
PAGING STATUS
HOLDING STATUS
MANIPULATION OF PAGE RELEASE KEY
OUTPUT OF RINGING TONE
SENDING OF CALLING-UP RELEASE SIGNAL
SENDING OF HOLDING-TONE RELEASE SIGNAL
⇒LINE 2a TALKING OPPOSITE PARTY A
LINE 2b WAITING
LINE 2c WAITING
TALKING STATUS

FIG. 9


START POWER ON
S0
SETTING OF WAITING STATUS
S1
INCOMING CALL SIGNAL?
S2
YES
NO
DISPLAY OF INCOMING CALL, OUTPUT OF INCOMING CALL TONE
S3
OFF-HOOK SIGNAL?
S10
YES
NO
SETTING OF TALKING STATUS
S11
HOLD KEY SIGNAL?
S12
YES
NO
SETTING OF HOLDING STATUS
S13
NEW INCOMING CALL SIGNAL?
S14
YES
NO
DISPLAY OF INCOMING CALL, OUTPUT OF INCOMING CALL TONE
S15
HOLD RELEASE KEY ?
S30
YES
NO
PAGE KEY SIGNAL ?
S16
YES
NO
OUTPUT OF RINGING TONE
S17
PAGE-RELEASE KEY SIGNAL?
S18
YES
NO
NEW INCOMING CALL SIGNAL?
S20
YES
NO
STOP OF RINGING TONE
S19
STOP OF RINGING TONE
S21
DISPLAY OF INCOMING CALL, AND OUTPUT OF INCOMING CALL TONE
PAGE KEY SIGNAL ?
S4
YES
NO
OUTPUT OF RINGING TONE
S5
PAGE-RELEASE KEY SIGNAL?
S6
YES
NO
NEW INCOMING CALL SIGNAL?
S8
YES
NO
STOP OF RINGING TONE
S7
STOP OF RINGING TONE
S9
DISPLAY OF INCOMING CALL, AND OUTPUT OF INCOMING CALL TONE
NEW INCOMING CALL SIGNAL?
S22
NO
YES
DISPLAY OF INCOMING CALL, AND OUTPUT OF INCOMING CALL TONE (FROM HANDSET)
S23
ON-HOOK SIGNAL?
S31
YES
NO
SETTING OF WAITING STATUS
S32
END
S33
PAGE KEY SIGNAL ?
S24
YES
NO
OUTPUT OF RINGING TONE (TEMPORARY TALK HOLDING)
S25
PAGE-RELEASE KEY SIGNAL?
S26
YES
NO
STOP OF RINGING TONE
S27
NEW INCOMING CALL SIGNAL?
S28
YES
NO
STOP OF RINGING TONE
DISPLAY OF INCOMING CALL, AND OUTPUT OF INCOMING CALL TONE (FROM HANDSET)
S29